UNIVERSAL ELECTRONICS®

MILLENNIUM™ 4

Universal Remote Control

User's Guide

TABLE OF CONTENTS

Introduction 3
Features And Functions 4
Key Charts 5
Installing Batteries 7
Programming TV Control 8
Setup Codes for TVs 8
Programming VCR/DVD Control 12
Setup Codes for VCRs and DVD's 18
Programming COMBO 27
Setup Codes for combo devices 28
Programming Cable Converter Control 30
To Unlock the Cable Key 30
To Program the Cable Key 30
To Lock the Cable Key 31
Setup Codes for Cable Converters 31
Programming Channel Control Lock ... 33
To Activate Channel Control Lock 33
To De-Activate Channel Control Lock 33
Programming Audio Control 34
Setup Codes for Stereo Amplifiers 35
Setup Codes for Stereo Amplifiers 35
Setup Codes for Audio Accessories 36
Searching For Your Code 38
Checking The Codes 39
Re-Assigning Device Keys 40
Changing Volume Lock 41
To Change Volume Lock to the CABLE Mode .. 41
To Change Volume Lock to the TV Mode 41
To Change Volume Lock to the VCR Mode 41
To Change Volume Lock to the AUDIO Mode .. 41
Troubleshooting 43
Additional Information 44

INTRODUCTION

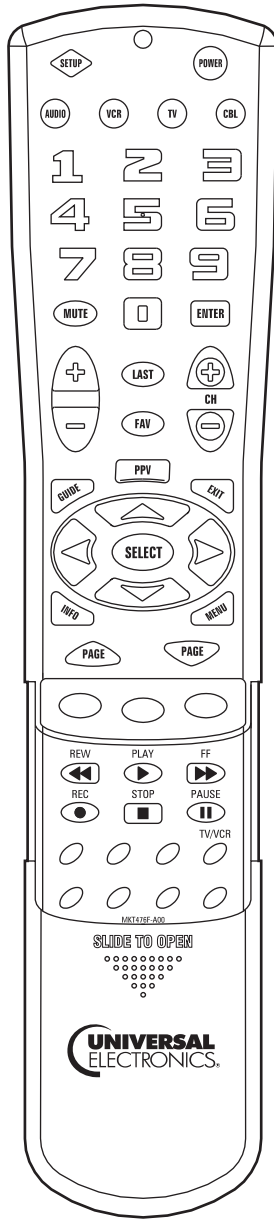
The Universal Electronics Millennium™ 4 is our latest generation universal remote control. It is designed with sophisticated technology that will allow you to finally consolidate the clutter of all of the original remote controls in your home entertainment system. It's packed with easy-to-use features such as:

- Preprogrammed to operate the cable converter supplied by your cable system provider
- Preprogrammed technology for easy setup
- Convenient hide-away sliding door to conceal less-used functions
- Color-coded keys to quickly locate popular functions
- Cable ID Lock to lock your remote control for use only with the cable converter
- Channel Lock to lock channel selection only to the cable converter
- Code library for video and audio components
- Code Search to help program control of older or discontinued components

Before you can use your new remote control, you will need to program it to operate the specific home entertainment components you wish to control. Follow the instructions detailed in this manual to set up your Millennium 4 and enjoy your new remote control.

FEATURES AND FUNCTIONS

Use the illustration below to locate Millennium 4 features and then study the *Key Charts* (on the next two pages) to learn how they function.

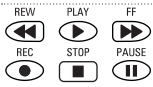
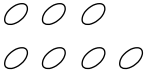


Key Charts

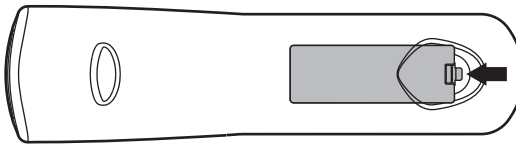
○	The LED (red light) blinks to confirm programming and operation.
AUDIO VCR TV CBL	Press AUDIO, VCR, TV, or CBL once to select a home entertainment component to control.
POWER	Press POWER once to turn on or off the selected home entertain ment component.
SETUP	Use SETUP for all programming sequences.
1 2 3 4 5 6 7 8 9	Use the keypad (0 ~ 9) to directly select channels (e.g., 09 or 31).
MUTE	Press MUTE once to turn sound off or on.
ENTER	Press ENTER once after entering channel numbers on some TV models.
VOL + / VOL −	Use volume + (or volume –) to raise (or lower) the sound volume.
CH + / CH −	Use CH + (or CH –) to select the next higher (or lower) channel.
LAST	Press LAST once to recall the last channel and to page back one screen in the main menu.
FAV	Use FAV to cycle through your favorite channels that are stored in your cable converter.
GUIDE	Use GUIDE to display the program guide.
PPV	Press PPV/LOCK once to displaythe pay-per view menu or to lock out a specific channel on your cable converter.

continued on next page...

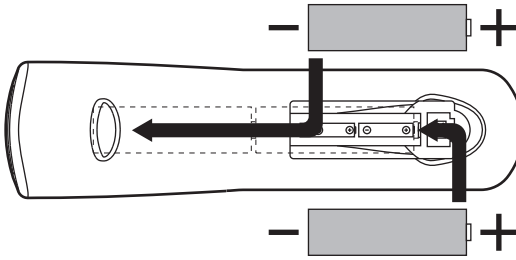
Key Charts (continued)

	Use EXIT to exit out of your cable converter's menu and guide.
	Use cursor keys to move the cur sor in the program guide and menu screens.
	Use SELECT/OK to choose options, PPV events, and to tune programs from the program guide.
	Use INFO to display current chan nel and program information.
	Press MENU once to display your cable converter's screen menu.
	Use PAGE (or PAGE) to page up or down) through menu screens and the program guide.
	Slide the door open to reveal less-often used keys such as VCR trans port buttons and cable converter features.
	In the VCR and TV modes, use the REW, PLAY, FF, REC, STOP, and PAUSE keys to control your VCR. To record a program, press REC twice.
	Reserved for cable converter fea tures (see your cable converter manual).
	Press TV/VCR once to switch the VCR to view TV channels or tape. This key will also control the input select feature on most TVs.

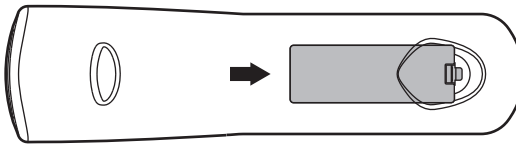
INSTALLING BATTERIES



1



2



3

1. On the back of the Millennium 4, push the tab and lift off the battery cover.

2. Obtain two (2) fully-charged AA alkaline batteries. Match the + and – marks on the batteries to the + and – marks in the battery case, then insert the new batteries.

3. Press the battery cover back into place. The tab should click when the cover is locked.

4. Test the unit by pressing POWER and any mode key (e.g. AUDIO, VCR, TV, or CBL). If the batteries are inserted correctly, the LED will blink once.

NOTE: Whenever batteries need replacement, the Millennium 4 will blink twice with every key press. Simply

PROGRAMMING TV CONTROL

Locate the brand name of your TV in the *Setup Codes For TVs* section below, and write it in the following space.

TV Brand:_____

The brands are listed in alphabetical order with the most popular codes listed first. You will use one of these codes to program the Millennium 4 to operate your TV:

1. Turn on the TV.

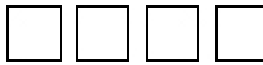
2. (TV) On the Millennium 4, press TV once. Press andhold SETUP until the LED blinks twice, then release SETUP.

3. (SETUP) Enter the first four-digit code for your TV. If you perform this procedure correctly, the LED will blink twice.

   NOTE: If the LED did not blink twice after entering the code's last digit, then repeat steps 2 through 3 and try entering the same code again.

4. (POWER) Aim the Millennium 4 at your TV and press POWER once. The TV should turn off. If it does not respond, repeat steps 2-3, trying each code for your brand until you find one that works. If it still does not work, try searching for the code (see *Searching For Your Code* on page 38).

5. Write your TV code in the boxes below for future reference.



NOTE: Remember, to use the Millennium 4 to operate your TV, press TV *first.*

Setup Codes for TVs:

A-Mark	0003
Abex	0032
Admiral	0093, 0463
Advent	0761, 0783, 0815, 0817, 0842, 1933
Adventura	0046
Aiko	0092

continued on next page...

Setup Codes for TVs (continued):

Aiwa	0701
Akai	0812, 0702, 0030, 0098, 0672, 1903, 1935
Alaron	0179, 0183, 0216
Albatron	0700, 0843
Ambassador	0177
America Action	0180
Ampro	0751
Anam	0180, 0004, 0009, 0068
Anam National	0055, 0161
AOC	0030, 0003, 0019, 0052, 0137, 0185
Apex Digital	0748, 0879, 0765, 0767, 1943, 0156
Archer	0003
Audiovox	0451, 0180, 0092, 0003, 0623, 0802, 0875, 1284, 1937, 1951, 1952
Aventura	0171
Axion	1937
Belcor	0019
Bell & Howell	0154, 0016
BenQ	1032, 1315
Boxlight	0893
Bradford	0180
Brockwood	0019
Broksonic	0236, 0463, 0003, 1935, 1938, 0180
Cadia	1283
Candle	0030, 0046, 0056, 0186
Carnivale	0030
Carver	0054, 0170
CCE	0217, 0329
Celebrity	0000
Celera	0765
Champion	1362
Changhong	0765
Cinego	1986
Citizen	0060, 0030, 0092, 0039, 0046, 0056, 0186, 0280
Clairtone	0185
Clarion	0180
Concerto	0056
Contec	0180, 0157, 0158, 0185
Craig	0180, 0161
Crosley	0054
Crown	0180, 0039
Curtis Mathes	0047, 0054, 0154, 0451, 0093, 0060, 0702, 0030, 0145, 0166, 1347, 1147, 0747, 0466, 0056, 0039, 0016
CXC	0180
Daewoo	0451, 0092, 1661, 0019, 0039, 0066, 0067, 0091, 0623, 0661, 0672
Daytron	0019
Dell	1080, 1178, 1264, 1403, 1454
Denon	0145, 0511
Denstar	0628

continued on next page...

Setup Codes for TVs (continued):

Diamond Vision	1996, 1997
DMTech	1338
Dream Vision	1297
Dumont	0017, 0019
Durabrand	0463, 0180, 0178, 0171, 1034, 0003
Dwin	0093, 0720, 0747, 0774
Dynatech	0049
Electroband	0000, 0185
Electrograph	1755
Electrohome	0381, 0389, 0409
Emerson	0154, 0236, 0463, 0180, 0178, 0171, 1963, 1944, 0623, 0282, 0280, 0270, 0185, 0183, 0182, 0181, 0179, 0177, 0158, 0039, 0038, 0019, 0180
Envision	0030, 0813, 1365
Epson	0833, 0840, 1290
ESA	0812, 0171
Fisher	0154, 0159
Fujitsu	0179, 0186, 0683, 0809,0853
Funai	0180, 0171, 0179
Futuretech	0180
Gateway	1755, 1756
GE	1447, 0047, 0051, 0451, 0178, 1347, 0747, 0282, 0279, 0251, 0174, 0138, 0135, 0055, 0029, 0027, 0021
Gibralter	0017, 0030, 0019
Go Video	0886
GoldStar	0178, 0030, 0001, 0002, 0019, 0032, 0106, 0409
Goodmans	0360
Gradiente	0392
Grundig	0683
Grunpy	0180, 0179
Haier	1034, 0768
Hallmark	0178
Hannspree	1348, 1351, 1352
Hantarex	1338
Harley Davidson	0043, 0179
Harman/Kardon	0054, 0078
Harvard	0180, 0068
Havermy	0093
Helios	0865
Hello Kitty	0451
Hisense	0748
Hitachi	1145, 0145, 0016, 0032, 0038, 0056, 0095, 0097, 0151, 0173, 0227, 0279, 0409, 0413, 1960
HP	1088, 1089, 1101, 1494, 1502
Hyundai	0849
iLo	1286, 1990
Infinity	0054
Initial	1990
Inteq	0017

Setup Codes for TVs (continued):

Janeil	0046
JBL	0054
JCB	0000
Jensen	0761, 0050, 0815, 0817, 1299, 1933
JVC	0053, 0036, 0069, 0160, 0169, 0182, 0731, 1253
1352	
Kamp	0216
Kawasho	0158, 0216, 0308
Kaypani	0052
KEC	0180
Kenwood	0030, 0019
KLH	0765, 0767, 1962
Kloss	0024, 0046, 0078
KMC	0106
Konka	0628, 0632, 0638, 0703, 0707
KTV	0180, 0030, 0039, 0183, 0185, 0217, 0280
LG	1265, 0178, 0442, 0700, 0856, 1178, 1325, 1993
Loewe	0136
Logik	0016
Luxman	0056
LXI	0047, 0054, 0154, 0156, 0178, 0148, 0747
Magnavox	1454, 0054, 0030, 0706, 1963, 1944, 1254, 0802,
	0386, 0230, 0187, 0186, 0179, 0096, 0036, 0028,
	0024, 0020
Majestic	0015, 0016
Marantz	0054, 0030, 0444, 0704, 0854, 0855, 1154, 1454
Matsushita	0250, 0650
Maxent	1755
Megapower	0700
Megatron	0178, 0145, 0003
MEI	0185
Memorex	0154, 0463, 0150, 0178, 0016, 0106, 0179
MGA	0150, 0178, 0030, 0019, 0155
Midland	0047, 0017, 0051, 0032, 0039, 0135, 0747
Mintek	1990
Minutz	0021
Mitsubishi	0093, 1250, 0150, 0178, 0014, 0019, 0098, 0155,
	0331, 0358, 0836, 0868, 1550
Monivision	0700, 0843
Motorola	0093, 0055
MTC	0060, 0030, 0019, 0049, 0056, 0091, 0185, 0216
Multitech	0180, 0049, 0217
NAD	0156, 0178, 0866
NEC	0030, 0019, 0036, 0056, 0170, 0434, 0497, 0882,
	1704
NetTV	1755
Nikko	0178, 0030, 0092, 0317
Noblex	0430

continued on next page...

Setup Codes for TVs (continued):

Norcent	0748, 0824, 1365
Norwood Micro	1286, 1296, 1303
Noshi	0018
NTC	0092
Olevia	1144, 1240, 1331
Onwa	0180
Optimus	0154, 0250, 0166, 0650
Optoma	0887, 1348
Optonica	0093, 0165
Orion	0236, 0463, 1463, 0179
Panasonic	0250, 0051, 0055, 0162, 0226, 0338, 0375, 0650, 1410, 1941, 1946, 1947
Penney	0047, 0156, 0051, 0060, 0178, 0030, 1347, 0747, 0309, 0149, 0138, 0135, 0110, 0039, 0032, 0027, 0021, 0019, 0018, 0003, 0002
Philco	0054, 0030, 0019, 0020, 0028, 0096, 0302
Philips	1454, 0054, 0690, 1154
Pilot	0030, 0019, 0039
Pioneer	0166, 0038, 0172, 0679, 0866, 1260
Polaroid	0765, 0865, 1276, 1314, 1316, 1326, 1327, 1328, 1991, 1992
Portland	0092, 0019, 0039
Prima	0761, 0783, 0815, 0817, 1933
Princeton	0700, 0717
Prism	0051
Proscan	1447, 0047, 0747, 1347, 0466
Proton	0178, 0003, 0031, 0052, 0466
Protron	1320, 1323
Proview	1498
Pulsar	0017, 0019
Quasar	0250, 0051, 0055, 0165, 0219, 0650
RadioShack	0047, 0154, 0180, 0178, 0030, 0019, 0032, 0039, 0056, 0165, 0409, 0747
RCA	1447, 0047, 1958, 1953, 1948, 1547, 1347, 1247, 1147, 1047, 0747, 0679, 0278, 0174, 0135, 0090, 0038, 0029, 0019, 0018
Realistic	0154, 0180, 0178, 0030, 0019, 0032, 0039, 0056, 0165
Rhapsody	0183, 0185, 0216
Runco	0017, 0030, 0251, 0497, 0603
Sampo	0030, 0032, 0039, 0052, 0100, 0110, 1755
Samsung	0060, 0812, 0702, 0178, 0030, 1903, 1395, 1312, 1060, 0814, 0766, 0427, 0408, 0329, 0056, 0032, 0019, 0217, 0587
Samsux	0039
Sansui	0463, 1935
Sanyo	0154, 0088, 0107, 0146, 0159, 0232, 0484, 0799, 0893, 1142
Sceptre	1360

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Setup Codes for TVs (continued):

Scimitsu	0019
Scotch	0178
Scott	0236, 0180, 0178, 0019,0179, 0309
Sears	0047, 0054, 0154, 0156, 0178, 0171, 0015, 0056, 0146, 0148, 0149, 0159, 0168, 0179, 0281, 0747
Seleco	1297, 1351
Sharp	0093, 0039, 0153, 0157, 0165, 0220, 0281, 0386, 0398, 0491, 0688, 0689, 0818, 0851
Sheng Chia	0093
Shogun	0019
Signature	0016
SIM2 M.Media	1297
Simpson	0186, 0187
Sole	0813
Sony	1100, 0000, 0011, 0080, 0111, 0273, 0353, 0810, 0834, 1317
Soundesign	0180, 0178, 0179, 0186
Sova	1320, 1952
Spectricon	0003, 0137
Squareview	0171
SSS	0180, 0019
Starlite	0180
Studio Exp.	0843
Superscan	0093, 0864
Supre-Macy	0046
Supreme	0000
SVA	0748, 0587, 0768, 0865, 0870, 0871, 0872
Sylvania	0054, 0030, 0171, 0020, 0028, 0065, 0096, 0381, 1944, 1963
Symphonic	0180, 0171
Syntax	1144, 1240, 1331
Tandy	0093
Tatung	0003, 0049, 0055, 0396, 1101, 1285, 1286, 1287, 1288, 1361, 1756
Technics	0250, 0051
Technol Ace	0179
Technovox	0007
Techview	0847
Techwood	0051, 0003, 0056
Teknika	0054, 0180, 0150, 0060, 0092, 0016, 0019, 0039, 0056, 0175, 0179, 0186, 0312, 0322
Telefunken	0702, 0056, 0074
Tera	0031
Thomson	0209, 0210
TMK	0178, 0056, 0177
TNCi	0017
Toshiba	0154, 1256, 0156, 1265, 0060, 1945, 1935, 1704, 1656, 1356, 1343, 1325, 1156, 0845, 0832, 0650, 0149, 0036, 1945, 1971

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Setup Codes for TVs (continued):

Tosonic	0185
Totevision	0039
Trical	0157
TVS	0463
Ultra	0391
Universal	0027
Universum	1337
US Logic	1286, 1303
Vector Research	0030
Victor	0053
Video Concepts	0098
Vidikron	0054, 0242
Vidtech	0178, 0019, 0036
Viewsonic	0857, 0864, 0885, 1330, 1342, 1755
Viking	0046, 0312
Visart	1336
Vizio	0864, 0885, 1756
Wards	0054, 0178, 0030, 1156, 0866, 0202, 0179, 0174, 0165, 0111, 0096, 0080, 0056, 0029, 0028, 0027, 0021, 0020, 0019, 0016
Waycon	0156
Westinghouse	0885, 0889, 1282, 0000, 0451
Yamaha	0030, 0019, 0769, 0833, 0839
Zenith	0017, 0463, 1265, 0178, 0092, 0016
Zonda	0003

Setup Codes for TVs (DLP)

Hewlett Packard	1494
HP	1494
LG	1265
Mitsubishi	1250
Optoma	0887
RCA	1447
Samsung	0812, 1060, 1312
SVA	0872
Toshiba	1265

Setup Codes for TVs (HDTV)

Advent	0842
Hitachi	1960
Marantz	0854
Mitsubishi	0150
Panasonic	0250, 0650
Pioneer	0679
Princeton	0717
RCA	1447
Samsung	0702, 0812
Sharp	0688, 0689
Toshiba	1256

continued on next page...

Setup Codes for TVs (LCD)

Akai	1935
Audiovox	0180, 0802, 0875, 1284, 1937, 1951, 1952
BenQ	1315
Cadia	1283
Dell	1080, 1178, 1264
Envision	0813, 1365
Funai	0171
Go Video	0886
HP	1088
Hyundai	0849
iLo	1286, 1990
Initial	1990
Jensen	1299
LG	0856, 1178, 1993
Magnavox	0802
Marantz	0855
Mintek	1990
Mitsubishi	1250
Norcent	1365
Norwood Micro	1286, 1296
Olevia	1144, 1240, 1331
Panasonic	0650, 1941
Philips	1454
Polaroid	1276, 1316
Protron	1320, 1323
RCA	0047, 1958
Samsung	0766, 0812, 0814, 1395
Sanyo	1142
Sceptre	1360
Sharp	0093, 0818
Sony	0810
Sova	1320
Superscan	0864
SVA	0587, 0870, 0871
Sylvania	0171
Symphonic	0171
Syntax	1144, 1240, 1331
Tatung	1286
Techview	0847
Toshiba	0845, 1343, 1656
US Logic	1286
Viewsonic	0857, 0864, 0885, 1330
Visart	1336
Vizio	0864, 0885, 1756
Westinghouse	0885, 0889, 1282
Wyse	1365
Zenith	1265

Setup Codes for TVs (Plasma)

Akai	0812
Albatron	0843
BenQ	1032
Daewoo	0661
Dell	1264
Electrograph	1755
ESA	0812
Fujitsu	0186, 0683, 0809, 0853
Gateway	1755, 1756
Helios	0865
HP	1089, 1502
JVC	0731
LG	0178, 0856
Marantz	0704
Maxent	1755
Mitsubishi	0836
Monivision	0843
NEC	1704
NetTV	1755
Norcent	0824
Norwood Micro	1303
Panasonic	0250, 0650
Philips	0690
Pioneer	0679, 1260
Polaroid	0865, 1327, 1328
Sampo	1755
Samsung	0812, 1312
Sony	0000, 0810, 1317
Studio Exp.	0843
SVA	0865
Tatung	1101, 1285, 1287, 1288, 1756
Toshiba	0650, 1704
US Logic	1303
Viewsonic	1755
Vizio	1756
Zenith	0178

Setup Codes TV/DVD Combo

Controlled by TV

Advent	1933
Apex Digital	1943
Audiovox	1937, 1951, 1952
Axion	1937
Broksonic	1935
Cinego	1986
Diamond Vision	1997
Emerson	1963
Hitachi	1960

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Setup Codes TV/DVD Combo cont...

iLo	1990
Initial	1990
Jensen	1933
KLH	1962
LG	1993
Magnavox	1963
Mintek	1990
Panasonic	1941
Polaroid	1991
Prima	1933
RCA	1948, 1958
Samsung	1903
Sansui	1935
Sova	1952
Sylvania	1963
Toshiba	1935

Controlled by VCR

Advent	1016
Akai	0695
Apex Digital	0830
Audiovox	1071, 1121, 1122
Axion	1071
Broksonic	0695
Cinego	1399
Diamond Vision	1610
Emerson	0675, 1268
Go Vision	1071
Hitachi	1247
iLo	1472
Initial	1472
Jensen	1016
KLH	1261
Konka	0719, 0720
LG	1526
Magnavox	1268
Mintek	1472
Panasonic	1490
Philips	0854, 1260
Polaroid	1480
Prima	1016
RCA	1022, 1193
Samsung	0899
Sansui	0695
Sova	1122
Sylvania	0675, 1268
Toshiba	0695

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PROGRAMMING VCR/DVD CONTROL

Locate the brand name of your VCR/DVD in the *Setup Codes For VCRs* and *DVD* section below, and write it in the following space.

VCR Brand: _____

The brands are listed in alphabetical order with the most popular codes listed first. You will use one of these codes to program the Millennium 4 to operate your VCR:

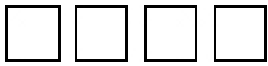
1. Turn on your VCR or DVD.
2. On the Millennium 4, press VCR once. Press and hold SETUP until the LED blinks twice, then release SETUP.
3.

Enter the first four-digit code for your VCR. If you perform this procedure correctly, the LED will blink twice.

   NOTE: If the LED did not blink twice after entering the code's last digit, then repeat steps 2 through 3 and try entering the same code again.

4.

Aim the Millennium 4 at your VCR and press POWER once. The VCR should turn off. If your VCR remote control does not have a POWER key, press PLAY. If the VCR does not respond, repeat steps 2-3, trying each code listed for your brand until you find one that works. If the VCR still does not work , try searching for the code (see *Searching For Your Code* on page 38).
5. Write your VCR code in the boxes below for future reference.



NOTE: Remember, to use the Millennium 4 to operate your VCR, or DVD press VCR *first.*

Setup Codes for VCRs:

ABS	1972	
Admiral	0048, 0209	
Adventura	0000	
Aiko	0278	*continued on next page..*

Setup Codes for VCRs (continued):

Headquarter	0046
Hewlett Packard	1972

Setup Codes for VCRs (continued):

Aiwa	0037, 0000, 0124, 0307, 0468
Akai	0041, 0049, 0053, 0061, 0106, 0175
Alienware	1972
America Action	0278
American High	0035
Asha	0240
Audiovox	0037, 0278
Beaumark	0240
Bell & Howell	0104
Broksonic	0184, 0121, 0209, 0002, 0211, 0295, 0361, 0479, 1479, 1815
Calix	0037
Canon	0035, 0102
Capehart	0020
Carver	0081
CCE	0072, 0278
Citizen	0037, 0278, 1278
Colt	0072
Craig	0037, 0047, 0240, 0072, 0271
Curtis Mathes	0060, 0035, 0162, 0041, 0760, 1035
Cybernex	0240, 0051
CyberPower	1972
Daewoo	0045, 0278, 0020, 0561, 0637, 1278
Daytron	0020
Dell	1972
Denon	0042
DirecTV	0739
Durabrand	0039, 0038
Dynatech	0000
Electrohome	0037
Electrophonic	0037
Emerex	0032
Emerson	0037, 0184, 0000, 0121, 0043, 0209, 0002, 0278, 1479, 1278, 0637, 1593, 0593, 0561, 0510, 0479, 0361, 0295, 0294, 0212, 0211, 0208, 0088, 0068, 0061, 0036
Fisher	0047, 0104, 0054, 0066
Fuji	0035, 0033
Funai	0000, 0593, 1593
Garrard	0000
Gateway	1972
GE	0060, 0035, 0240, 0065, 0202, 0760, 0761, 0807, 1035, 1060
Go Video	0232, 0279, 0432, 0526, 0643
GoldStar	0037, 0038, 0018, 1237
Gradiente	0000, 0408
Grundig	0195
Harley Davidson	0000
Harman/Kardon	0081, 0038, 0075
Harwood	0072, 0068
Headquarter	0046

continued on next page..

HI-Q	0047
Hitachi	0000, 0042, 0041, 0065, 0082, 0089, 0105, 0166
HNS	0042, 0739
Humax	0739
Hush	1972
iBUYPOWER	1972
Jensen	0041
JVC	0067, 0041, 0008, 0206, 0207, 0384, 1707
KEC	0037, 0278
Keen	0693
Kenwood	0067, 0041, 0038, 0384
KLH	0072
Kodak	0035, 0037
LG	1037
Linksys	1972
Lloyd's	0000, 0208
Logik	0072
LXI	0037
Magnasonic	0593, 1278
Magnavox	0035, 0039, 0081, 0000, 0149, 0110, 0563, 0593, 1593, 1781
Magnin	0240
Marantz	0035, 0081
Marta	0037
Matsushita	0035, 0162, 1162
Media Center PC	1972
MEI	0035
Memorex	0035, 0162, 0037, 0048, 0039, 0047, 0240, 0000, 0104, 0209, 0046, 0307, 0454, 0479, 1037, 1162, 1237, 1262
MGA	0240, 0043, 0061
MGN Tech.	0240
Microsoft	1972
Mind	1972
Minolta	0042, 0105
Mitsubishi	0067, 0043, 0061, 0075, 0173, 0443, 0807
Motorola	0035, 0048
MTC	0240, 0000
Multitech	0000, 0072
NAD	0058
NEC	0104, 0067, 0041, 0038, 0040, 0050, 0082
Nikko	0037
Nikon	0034
Niveus Media	1972
Noblex	0240
Northgate	1972
Olympus	0035, 0226
Onkyo	0222

continued on next page...

Setup Codes for VCRs (continued):

Optimus	1062, 0162, 0037, 0048, 0104, 0058, 0432, 0454, 0593, 1048, 1162, 1262
Optonica	0062
Orion	0184, 0209, 0002, 0295, 0479, 1479
Panasonic	1062, 0035, 0162, 0077, 0102, 0225, 0226, 0227, 0378, 0454, 0616, 1035, 1162, 1262
Penney	0035, 0037, 0240, 0042, 0038, 0040, 0054, 1035, 1237
Pentax	0042, 0065, 0105
Philco	0035
Philips	0035, 0081, 0062, 0110, 0618, 0739, 1081, 1181
Pilot	0037
Pioneer	0067, 0058
Polk Audio	0081
Portland	0020
Presidian	1593
Profitronic	0240
Proscan	0060, 0202, 0760, 0761, 1060
Protec	0072
Pulsar	0039, 0051
Quarter	0046
Quartz	0046
Quasar	0035, 0162, 0077, 0454, 1035, 1162
RadioShack	0000, 1037
Radix	0037
Randex	0037
RCA	0060, 0240, 0042, 0149, 0058, 0065, 0077, 0105, 0106, 0202, 0760, 0761, 0807, 0880, 1035, 1060
Realistic	0035, 0037, 0048, 0047, 0000, 0104, 0046, 0062, 0066
ReplayTV	0614, 0616
Ricavision	1972
Ricoh	0034
Runco	0039
Salora	0075
Samsung	0240, 0045, 0051, 0053, 0739, 1014
Samtron	0643
Sanky	0048, 0039
Sansui	0000, 0067, 0209, 0041, 0082, 0271, 0479, 1479
Sanyo	0047, 0240, 0104, 0046, 0159
Scott	0184, 0045, 0121, 0043, 0210, 0211, 0212
Sears	0035, 0037, 0047, 0000, 0042, 0104, 0046, 0054, 0066, 0105, 1237
Sharp	0048, 0062, 0807, 0848
Shintom	0072
Shogun	0240, 0051
Singer	0072
Sonic Blue	0614, 0616
Sony	0035, 0032, 0033, 0000, 0011, 0034, 0636, 1032, 1232, 1972

continued on next page..

Setup Codes for VCRs (continued):

Stack 9	1972
STS	0042
Sylvania	0035, 0081, 0000, 0043, 0110, 0593, 1593, 1781
Symphonic	0000, 0593, 1593
Systemax	1972
Tagar Systems	1972
Tatung	0041
Teac	0000, 0041
Technics	0035, 0162
Teknika	0035, 0037, 0000, 0052
Thomas	0000
Tivo	0618, 0636, 0739, 1996
TMK	0240, 0036, 0208
Toshiba	0045, 0043, 0066, 0210, 0212, 0366, 0845, 1008, 1145, 1972, 1996
Totevision	0037, 0240
Touch	1972
Unitech	0240
Vector	0045
Vector Research	0038, 0040
Video Concepts	0045, 0040, 0061
Videomagic	0037
Videosonic	0240
Viewsonic	1972
Villain	0000
Voodoo	1972
Wards	0060, 0035, 0048, 0047, 0081, 0240, 0000, 0042, 0072, 0149, 0062, 0212, 0760
White Westing.	0209, 0072, 0637
XR-1000	0035, 0000, 0072
Yamaha	0038
Zenith	0039, 0033, 0000, 0209, 0034, 0479, 0637, 1139, 1479
ZT Group	1972

Setup Codes for DVDs:

Accurian	1072, 1416
Adcom	1094
Advent	1016
Aiwa	0641
Akai	0695, 0770, 0899, 1089
Alco	0790
Allegro	0869
AMW	0872, 1245
Apex Digital	0672, 0717, 0755, 0794, 0796, 0797, 0830, 1004, 1020, 1056, 1061, 1100
Arrgo	1023
Aspire Digital	1168, 1407
Audiologic	0736
Audiovox	0790, 1041, 1071, 1072, 1121, 1122

Setup Codes for DVDs (continued):

Axion	1071, 1072
B & K	0655, 0662
BBK	1224
Bel Canto Des.	1571
Blaupunkt	0717
Blue Parade	0571
Broksonic	0695, 0868, 1419
Buffalo	1882
Cary Audio Desi	1477
CAVS	1057
Centrios	1577
Cinea	0831
Cinego	1399
CineVision	0876, 0833, 0869
Citizen	1277
Coby	0778, 0852, 1086, 1107, 1165, 1177, 1351
Craig	0831
Curtis Mathes	1087
CyberHome	0816, 0874, 1023, 1024, 1117, 1129, 1502, 1537
D-Link	1881
Daewoo	0784, 0705, 0833, 0869, 1169, 1172, 1234, 1242, 1441, 1443
Denon	0490, 0634
Desay	1407, 1455
Diamond Vision	1316, 1609, 1610
Disney	0675, 1270
Dual	1068, 1085
Durabrand	1127
DVD2000	0521
Emerson	0591, 0675, 0821, 1268
Enterprise	0591
ESA	0821, 1268, 1443
Fisher	0670, 1919
Funai	0675, 1268, 1334
Gateway	1073, 1077, 1158
GE	0522, 0815, 0717
Go Video	0744, 0715, 0741, 0783, 0833, 0869, 1044, 1075, 1099, 1144, 1158, 1304, 1443, 1730
Go Vision	1071, 1072
GoldStar	0741
GPX	0699, 0769
Greenhill	0717
Harman/Kardon	0582, 0702
Hitachi	0573, 0664, 1247, 1919
Hiteker	0672
iLo	1348, 1472
Initial	0717, 1472
Innovative Tech.	1542
Insignia	1268
Integra	0627

continued on next page..

Setup Codes for DVDs (continued):

Jaton	1078
JBL	0702
Jensen	1016
JSI	1423
JVC	0558, 0623, 0867, 1164, 1275, 1602, 1863
jWin	1049, 1051
Kawasaki	0790
Kenwood	0490, 0534, 0682, 0737
KLH	0717, 0790, 1020, 1149, 1261
Konka	0711, 0719, 0720, 0721
Koss	0651, 0896, 1423
Kreisen	1421
Landel	0826
Lasonic	0798, 1173
Lenoxx	1127
LG	0591, 0741, 0801, 0869, 1526
LiteOn	1058, 1158, 1416, 1440
Loewe	0511
Magnavox	0503, 0539, 0646, 0675, 0821, 1268, 1506
Malata	0782, 1159
Marantz	0539
McIntosh	1273
Memorex	0695, 0831, 1270
Microsoft	0522, 1708
Mintek	0839, 0717, 1472
Mitsubishi	1521, 0521
Momitsu	1082
NAD	0741
Nakamichi	1222
NEC	0785
Nesa	0717, 1603
NeuNeo	1454
Next Base	0826
NexxTech	1402
Norcent	1003, 0872, 1107, 1265, 1457
Onkyo	0503, 0627, 0792
Oppo	1224, 1525
OptoMedia	0896
Oritron	0651
Panasonic	0490, 0632, 0703, 1362, 1462, 1490, 1762
Philips	0503, 0539, 0646, 0675, 0854, 1260, 1267, 1354
Pioneer	0525, 0571, 0631, 0632
Polaroid	1020, 1061, 1086, 1245, 1316, 1478, 1480, 1482
Polk Audio	0539
Portland	0770
Presidian	0675, 1072
Prima	1016
Primare	1467
Princeton	0674
Proscan	0522

continued on next page..

Setup Codes for DVDs (continued):

ProVision	0778
Qwestar	0651
RCA	0522, 0571, 0717, 0790, 0822, 1022, 1132, 1193
Rio	0869
RJTech	1360
Rotel	0623, 1178
Rowa	0823
Sampo	0698, 0752, 1501
Samsung	0490, 0573, 0820, 0899, 1044, 1075
Sansui	0695
Sanyo	0670, 0695, 0873, 1919
Sensory Science	1158
Sharp	0630, 0675, 0752, 1256
Sharper Image	1117
Sherwood	0633, 0770, 1043, 1077, 1889
Shinsonic	0533, 0839
Sigma Designs	0674
Sonic Blue	0869, 1099
Sony	0533, 1533, 0864, 1033, 1431, 1432, 1433, 1548, 1892
Sound Mobile	1298
Sova	1122
Sungale	1074, 1532
Superscan	0821
SVA	0860, 1105
Sylvania	0675, 0821, 1268
Symphonic	0675, 0821
TAG McLaren	0894
Teac	0790, 0809
Technics	0490, 0703
Technosonic	0730
Techwood	0692
Terapin	1031
Theta Digital	0571
Toshiba	0503, 0695, 1045, 1154, 1854
Tredex	0799, 0800, 0803, 0804
Urban Concepts	0503
US Logic	0839
Valor	1298
Venturer	0790
Vialta	1509
Vizio	1064, 1226
Vocopro	1027, 1360
Xbox	0522, 1708
Xwave	1001
Yamaha	0490, 0539, 0545
Zenith	0503, 0591, 0741, 0869
Zoece	1265

Setup Codes for DVD Recorders:

Accurian	1416
Apex Digital	1056
Aspire Digital	1168
Coby	1086
CyberHome	1129, 1502
Funai	0675, 1334
Gateway	1073, 1158
Go Video	0741, 1158, 1304, 1730
iLo	1348
JVC	1164, 1275
Kreisen	1421
LG	0741
LiteOn	1158, 1416, 1440
Magnavox	0646, 0675, 1506
Panasonic	0490
Philips	0646
Pioneer	0631
Polaroid	1086
RCA	0522
Samsung	0490
Sensory Science	1158
Sharp	0675
Sony	1033, 1431, 1432, 1433
Sylvania	0675
Zenith	0741

Setup Codes for DVD Combos (LCD):

Akai	0695
Audiovox	1071, 1121, 1122
iLo	1472
Initial	1472
LG	1526
Mintek	1472
RCA	1193

PROGRAMMING A COMBO UNIT

If you own a combo unit such as a TV/VCR Combo or a TV/DVD Combo, you need to follow special steps to set it up. Perform the following instructions to control combo device::

1. For a TV/VCR Combo, turn on your TV/VCR Combo and insert a video cassette. (For a TV/DVD Combo, insert a DVD).

2. On the Millennium 4, press VCR once. Press and hold SETUP until the LED blinks twice, then release SETUP.

3. Enter the first four-digit code for your TV/VCR Combo. If you perform this procedure correctly, the LED will blink twice.

   NOTE: If the LED did not blink twice after entering the code's last digit, then repeat steps 2 through 3 and try entering the same code again.

4. Aim the Millennium 4 at your TV/VCR Combo and press POWER once. The unit should turn off. If it does not respond, repeat steps 2-3, trying each code listed for your brand until you find one that works. If it still does not work, try searching for the code (see *Searching For Your Code* on page 38).

5. If you've located a Combo setup code that works your Combo and a separate TV code is also listed, you'll need to program this code into the Millennium 4 to access volume control (see *Programming TV Control on* page 8).

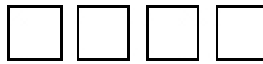
   If there is no separate TV code listed, you will need to perform the following steps to access volume control:

    a. Press and hold SETUP until the LED blinks twice, then release SETUP.

    b. Enter 9 - 9 - 3. The LED will blink twice.

    c. Press VCR once. The LED will blink twice.

6. Write your TV/VCR Combo code in the boxes below for future reference.



NOTE: Remember, to use the Millennium 4 to operate your Combo, press VCR *first.*

Setup Codes for TV/VCR Combos:

Controlled by the TV

America Action	0180
Audiovox	0180
Emerson	0236

Controlled by the VCR

America Action	0278
Audiovox	0278
Broksonic	0002, 0479, 1479
Citizen	1278
Colt	0072
Curtis Mathes	1035
Daewoo	0637, 1278
Emerson	0002, 0294, 0479, 0593, 1278, 1479
Funai	0000
GE	0240, 0807, 1035, 1060
GoldStar	1237
Harley Davidson	0000
Hitachi	0000
LG	1037
Lloyd's	0000
Magnasonic	0593, 1278
Magnavox	0000, 0593, 1781
Magnin	0240
Memorex	0162, 0454, 1037, 1162, 1237, 1262
MGA	0240
Mitsubishi	0807
Optimus	0162, 0454, 0593, 1162, 1262
Orion	0002, 0479, 1479
Panasonic	0162, 1035, 1162, 1262
Penney	0240, 1035, 1237
Quasar	0162, 1035, 1162
RadioShack	0000, 1037
RCA	0240, 0807, 1035, 1060
Samsung	1014
Sansui	0000, 0479, 1479
Sanyo	0240
Sears	0000, 1237
Sony	0000, 1232

Setup Codes for TV/VCR Combos Cont:

Controlled by the VCR

Thomas	0000
Toshiba	0845, 1145
White Westing.	0637
Zenith	0000, 0479, 0637, 1479

Setup Codes for TV/VCR/DVD Combos

Controlled by the TV

Akai	1903
Broksonic	1938
Diamond Vision	1996
Emerson	1944
ESA	1944
Magnavox	1944
Panasonic	1946, 1947
Polaroid	1992
RCA	1953
Sylvania	1944
Symphonic	1944
Toshiba	1945

Controlled by the VCR

Akai	0899
Broksonic	0868
Diamond Vision	1609
Emerson	0821
ESA	0821
Funai	1334
Magnavox	0821
Panasonic	1362, 1462
Polaroid	1482
RCA	1132
Sharp	0630, 0807
Superscan	0821
Sylvania	0821
Symphonic	0821
Toshiba	1045

PROGRAMMING CABLE CONVERTER

The Millennium 4 is preprogrammed at the factory to operate the cable converter given to you by your cable company. However, if you have another brand or model of cable converter or satellite receiver that you would like to control, then you'll need to perform the following instructions to unlock the cable key, enter in a new code, and lock the cable key again.

To unlock the Cable key:

1. Turn on the Cable Converter.

2. (CBL) / (SETUP) On the Millennium 4, press CBL once. Press and hold SETUP until the LED blinks twice, then release SETUP.

3. 9-8-2 Enter 9 - 8-2. The LED will blink four times.

To program the Cable key:

1. Locate the brand name of your Cable Converter section starting on the next page, and write it in the appropriate space.

   Cable Converter Brand: _____

   The brands are listed in alphabetical order with the most popular codes listed first. You will use one of these codes to reprogram the Millennium 4 to operate your Cable Converter or DBS Receiver.

2. (CBL) / (SETUP) On the Millennium 4, press CBL once. Press and hold SETUP until the LED blinks twice, then release SETUP.

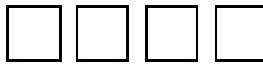
3. Enter the first four-digit code for your Cable Converter. If you perform this procedure correctly, the LED will blink twice.

   NOTE: If the LED did not blink twice after entering the code's last digit, then repeat steps 2 through 3 and try entering the same code again.

4. (POWER) Aim the Millennium 4 at your Cable Converter and press POWER once. The unit should turn off. If it does not

respond, repeat steps 2-3, trying each code listed for your brand until you find one that works. If it still does not work , try searching for the code (see *Searching For Your Code* on page 38).

5. Write your Cable Converter or DBS Receiver code in the boxes below for future reference.



NOTE: Remember, to use the Millennium 4 to operate your Cable Converter or DBS Receiver, press CABLE *first.*

To lock the Cable key:

1. SETUP On the Millennium 4, press CBL once. Press and hold SETUP until the LED blinks twice, then release SETUP.

2. 9-8-2 Enter 9 - 8- 2. The LED will blink twice

Setup Codes for Cable Converters:

ABC	0003, 0008, 0014, 0017
Americast	0899
Amino	1602, 1822
Bell & Howell	0014
Bell South	0899
Clearmaster	0883
ClearMax	0883
Coolmax	0883
Digeo	1187
Digi	0637
Director	0476
Dumont	0637
GI	0476, 0810, 0276, 0003
GoldStar	0144
Hamlin	0009, 0273
i3 Micro	1602
Jerrold	0476, 0810, 0276, 0003, 0012, 0014
Memorex	0000
Motorola	1376, 0476, 0810, 0276, 1187, 1254, 1106, 1540
Multitech	0883
Myrio	1602, 1822
Pace	1877, 0237, 0008
Panasonic	0000, 0107
Panther	0637
Paragon	0000
Philips	1305, 0317
Pioneer	1877, 0877, 0144, 0533

continued on next page...

Pulsar	0000
Quasar	0000
RadioShack	0883
RCA	1256
Regal	0279, 0273
Runco	0000
Samsung	0144
Sasktel	1737
Scientific Atlanta	1877, 0877, 0477, 0008, 0017
Sejin	1602
Sony	1006
Starcom	0003
Supercable	0276
Supermax	0883
Thomson	1256
Tocom	0012
Torx	0003
Toshiba	0000
Tristar	0883
V2	0883
Viewmaster	0883
Vision	0883
Vortex View	0883
Zenith	0000, 0525, 0899

Setup Codes for Cable DVR/PVR COMBO

Americast	0899
Amino	1822
Digeo	1187
GI	1376, 0476, 0810
Jerrold	1376, 0476, 0810
Motorola	1376, 0810, 1187, 1106, 1540, 0476
Myrio	1822
Pace	1877, 0237
Pioneer	1877, 0877
RCA	1256
Sasktel	1737
Scientific Atlanta	1877, 0877
Sony	1006
Supercable	0276
Thomson	1256
Zenith	0899

PROGRAMMING CHANNEL CONTROL LOCK

By activating this feature, the Millennium 4 will only allow access to the channel control capabilities of your cable converter. This will guarantee that you do not inadvertently change the channel on your TV or VCR.

To Activate Channel Control Lock:

1.

On the Millennium 4, press and hold SETUP until the LED blinks twice, then release SETUP.

2. 9-7-3 Enter 9 - 7 - 3. The LED will blink twice.

3.

Press CH + once. The LED will blink twice.

4. Now, regardless of what mode you select (i.e., TV, VCR, or CBL), only the channel control capability of your cable converter will be accessible.

   NOTE: This feature does not affect the Audio mode.

To De-Activate Channel Control Lock:

1.

On the Millennium 4, press and hold SETUP until the LED blinks twice, then release SETUP.

2. 9-7-3 Enter 9 - 7 - 3. The LED will blink twice.

3.

Press CH – once. The LED will blink twice.

4. The Millennium 4 will again provide TV and VCR channel control capabilities while in the TV or VCR mode.

PROGRAMMING AUDIO CONTROL

Using the Millennium 4's Audio mode, you can also control an audio component, a stereo receiver, or a stereo amplifier.

Locate the brand name of your audio component in the one of accompanying code lists (starting on the next page). Write it in the appropriate space.

Stereo Receiver Brand: _____
or
Stereo Amplifier Brand: _____

The brands are listed in alphabetical order with popular codes listed first. You will use one of these codes to program the Millennium 4 to operate your audio component:

1. Turn on the audio component (or DBS receiver to control its audio service).

2.

On the Millennium 4, press AUDIO once. Press and hold SETUP until the LED blinks twice, then release SETUP.

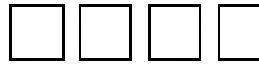
3. Enter the first four-digit code for your audio component. If you perform this procedure correctly, the LED will blink twice.

   NOTE: If the LED did not blink twice after entering the code's last digit, then repeat steps 2 through 3 and try entering the same code again.

4.

Aim the Millennium 4 at your audio component and press POWER once. The unit should turn off. If it does not respond, repeat steps 2-3, trying each code listed for your brand until you find one that works. If it still does not work , try searching for the code (see *Searching For Your Code* on page 38).

5. Write your audio component code in the boxes below for future reference.



NOTE: Remember, to use the Millennium 4 to operate your audio component, press AUDIO *first.*

Setup Codes for Audio Amplifiers:

Adcom	0577, 1100
Bose	0674
Durabrand	1561
Elan	0647
GE	0078
Harman/Kardon	0892
JVC	0331
Left Coast	0892
Lenoxx	1561
Luxman	0165
Marantz	0892, 0321
McIntosh	0251
Nakamichi	0321
NEC	0264
Optimus	0395, 0823
Parasound	0246
Philips	0892
Pioneer	0823
Polk Audio	0892
RCA	0823
Realistic	0395
Sansui	0321
Shure	0264
Sony	0689, 0815, 1126
Soundesign	0078, 0211
Victor	0331
Wards	0078, 0211
Yamaha	0354, 0133

Setup Codes for Audio Receivers

ADC	0531
Aiwa	1405, 0189, 0121, 0405, 1243, 1388, 1641
Akai	1512
Alco	1390
AMW	1563, 1615
Anam	1609, 1074
Apex Digital	1257, 1430, 1774
Arcam	1120
Audiotronic	1189
Audiovox	1390, 1627
B & K	0701, 0820, 0840
BK	0702
Bose	1229, 1629, 1841, 1933
Cambridge	1370
Capetronic	0531
Carver	1189, 0189
Classic	1352
Coby	1389

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Curtis Mathes	0080
Daewoo	1250
Delphi	1414
Denon	1360, 0004, 1142
Fisher	1801
Gateway	1517
Go Video	1532
Harman/Kardon	0110, 0189, 0891, 1304, 1306
Hitachi	1801
Integra	0135, 1298, 1320
JBL	0110, 1306
JVC	1374, 1495, 1811, 1871
Kenwood	1313, 1570, 1569, 0186
KLH	1390, 1412, 1428
Koss	1366, 1497
Lasonic	1798
LG	1293
Linn	0189
Liquid Video	1497
Magnavox	1189, 1269, 0189, 0391, 0531, 1514
Marantz	1189, 1269, 0189, 1289
Mitsubishi	1393
Norcent	1389
Nova	1389
Onkyo	0135, 0842, 1298, 1320, 1531
Optimus	1023, 0080, 0186, 0531, 0670, 1074
Oritron	1366, 1497
Panasonic	1308, 1518, 0309, 0367, 1288, 1316, 1548, 1633, 1763, 1764
Philips	1189, 1269, 0189, 0391, 1120, 1266
Pioneer	1023, 0014, 0080, 0150, 0244, 0531, 0630, 1384
Polaroid	1508
Polk Audio	0189, 1289, 1414
Proscan	1254
RCA	1023, 1609, 1254, 0080, 0531, 1074, 1390, 1511
Rio	1869
Samsung	1295, 1500
Sansui	0189
Sanyo	1251, 1469, 1801
Sharp	0186, 1286
Sharper Image	1556
Sherwood	1077, 1517, 1653
Sirius	1627, 1811, 1987
Sonic Blue	1532, 1869
Sony	1058, 1441, 1258, 1759, 1622, 0474, 1349, 1406, 1442, 1558, 1658, 1758, 1858
Soundesign	0670
Stereophonics	1023
Sunfire	1313
Teac	1074, 1390, 1528
Technics	1308, 1518, 0309
Thorens	1189

continued on next page...

Toshiba	1788
Venturer	1390
Wards	0189, 0014, 0080
XM	1406, 1414
Yamaha	0176, 0186, 1176, 1276, 1331, 1375
Zenith	0857, 1293

Setup Codes for AUDIO ACCESSORIES:

Accurian	1106
Altec Lansing	0607, 1056, 1485
Apple	1115, 1644
Cambridge	1530
Creative	0872
D-Link	1522
DLO	1155
Integra	1789
iPort	1917
Marantz	1491
Motorola	1464
NaviPod	1644
Netgear	1785
Omnifi	1605
Onkyo	1789
Roku	1828
Sonance	1917
SSI	1522
Yamaha	1809, 1810

SEARCHING FOR YOUR CODE

If your TV, VCR, Cable Converter or Audio Component does not respond to the Millennium 4 after trying all of the codes listed for your brand, or if your brand is not listed at all, try searching for your code.

For example, to search for a code for your TV:

1. Turn on your TV.

2.

On the Millennium 4, press and hold SETUP until the LED blinks twice, then release SETUP.

3.
Enter 9 - 9 - 1. The LED will blink twice.

4.

Aim the remote control at the the TV and press POWER once.

5.

Press and release the CH+ key continuously, then stop when the TV turns off.

NOTE: In the search mode, the Millennium 4 will send IR codes from its library to the selected component, starting with the most popular code first.

6.

Press PWR. The TV should turn on, then press SETUP to lock in the code.

NOTE: If the TV does not turn on during step 6, then slowly press and release CH- to go backthrough the codes, then press SETUP when theTV turns on.

7. To search for the codes of your other components, repeat steps 1 through 6, but substitute the appropriate key (i.e., VCR, CBL, or AUDIO) for the (VCR, Cable, or Audio) component you are searching for.

CHECKING THE CODES

If you have set up the Millennium 4 using the *Searching For Your Code* procedure, you may need to find out which four-digit code is operating your equipment:

For example, to find out which code is operating your TV:

1. Turn on your TV.

2. On the Millennium 4, press and hold SETUP until the LED blinks twice, then release SETUP.

3. Enter 9 - 9 - 0. The LED will blink twice.

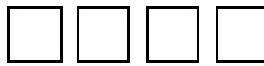
4. To view the code for the first digit, press 1 once. Wait 3 seconds and count the number of LED blinks (e.g., 3 blinks =-3) and write down the number in the left-most TV Code box below.

   NOTE: If a code digit is "0", the LED will not blink.

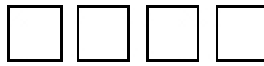
5. Repeat step 4 three more times for remainingdigits. Use 2 for the second digit, 3 for the third digit, and 4 for the fourth digit. Finish writing down the code in the TV Code boxes below.

6. To check for the codes of your other components, repeat steps 1 through 5, but substitute the appropriate key (i.e., VCR or AUDIO) for the (VCR, or Audio) component you are checking. Write down the codes in the appropriate boxes below.

   TV Code

   VCR Code

RE-ASSIGNING DEVICE KEYS

The Millennium 4 can be set up to control a second TV or VCR, or any combination of four home entertainment components. For example, to have the Millennium-4 control a TV, a Cable Converter, and *two* VCRs, you will need to re-assign the unused AUDIO key to operate the second VCR as follows:

1. On the Millennium 4, press and hold SETUP until the LED blinks twice, then release SETUP.

2. Enter 9 - 9 - 2. The LED will blink twice.

3. Press VCR once, then press AUDIO once.

4. The AUDIO key is now ready to be programmed for your second VCR. See *Programming VCR Control* on page 12.

To re-assign other device keys, repeat steps 1 through 4 by substituting the key sequence from the following chart for a desired component:

To Re-Assign	Perform Key Sequence
TV as 2nd VCR key:	SETUP - 9 - 9 - 2 - VCR - TV
TV as 2nd Audio key:	SETUP - 9 - 9 - 2 - AUDIO - TV
TV as 2nd Cable key:	SETUP - 9 - 9 - 2 - CBL - TV
TV to TV:	SETUP - 9 - 9 - 2 - TV - TV
VCR as 2nd TV key:	SETUP - 9 - 9 - 2 - TV - VCR
VCR as 2nd Audio key:	SETUP - 9 - 9 - 2 - AUDIO - VCR
VCR as 2nd Cable key:	SETUP - 9 - 9 - 2 - CBL - VCR
VCR to VCR:	SETUP - 9 - 9 - 2 - VCR - VCR
AUDIO as 2nd TV key:	SETUP - 9 - 9 - 2 - TV - AUDIO
AUDIO as 2nd VCR key:	SETUP - 9 - 9 - 2 - VCR - AUDIO
AUDIO as 2nd Cable key:	SETUP - 9 - 9 - 2 - CBL - AUDIO
AUDIO to AUDIO:	SETUP - 9 - 9 - 2 - AUDIO -AUDIO

Upon completion of a re-assignment, the LED will blink twice to confirm your selection. At that time, you will also need to program the Millennium 4 to control the new component (see previous sections on *Programming TV Control*, *Programming VCR Control*, *Programming Cable Control*, or *Programming Audio Control*).

CHANGING VOLUME LOCK

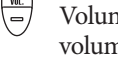
The Millennium-4 is set to control volume of a component through your TV while in the TV, VCR, or Cable mode. However, in the Audio mode, you have separate control of of your audio component's volume.

If your TV is not remote controllable, or if you would like the volume to be controlled by a different component, you can change the Volume Lock setting to control a volume through a non-associated mode (e.g., through the *cable* in the TV mode).

To change Volume Lock to the CABLE mode:

1.

On the Millennium 4, press and hold SETUP until the LED blinks twice, then release SETUP.

2. 

Enter 9 - 9 - 3 and then press CBL once. TheLED will blink twice.

3.

Now, whenever you press Volume +, Volume –, or MUTE on the Millennium 4, volume will be controlled by your Cable Converter.

To change Volume Lock to the TV mode:

1.

On the Millennium 4, press and hold SETUP until the LED blinks twice, then release SETUP.

2.

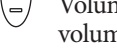
Enter 9 - 9 - 3 and then press TV once. The LED will blink twice.

3.

Now, whenever you press Volume +, Volume –, or MUTE on the Millennium 4, volume will be controlled by your TV.

To change Volume Lock to the VCR mode:

1.



On the Millennium 4, press and hold SETUP until the LED blinks twice, then release SETUP.

2.
Enter 9 - 9 - 3 and then press VCR once. The LED will blink twice.

3.

Now, whenever you press Volume +, Volume –, or MUTE on the Millennium 4, volume will be controlled by your VCR.

CHANGING VOLUME LOCK (CONTINUED)

To change Volume Lock to the AUDIO mode:

NOTE: Performing these steps will allow you to access the volume control of your audio component in all modes.

1.

On the Millennium 4, press and hold SETUP until the LED blinks twice, then release SETUP.

2. Enter 9 - 9 - 3 and then press AUDIO once. The LED will blink twice.

3.

Now, whenever you press Volume +, Volume –, or MUTE on the Millennium 4, volume will be controlled by your audio component.

TROUBLESHOOTING

PROBLEM: LED does not blink when you press a key.

SOLUTION: Replace the batteries with two (2) new AA alkaline batteries (see page 7).

PROBLEM: LED blinks when you press a key, but home entertainment component does not respond.

SOLUTION: Make sure you are aiming the Millennium 4 at your home entertainment component and that you are within 15-feet of the component you are trying to control.

PROBLEM: The Millennium 4 does not control home entertainment components or commands are not performing properly.

SOLUTION: Try all listed codes for the component brand being set up. Make sure all components can be operated with an infra red remote control.

PROBLEM: TV/VCR combo does not respond properly.

SOLUTION: Use the VCR codes for your brand. Some combo units may require both a TV code and a VCRcode for full operation

PROBLEM: No volume on a second TV.

SOLUTION: Follow instructions in Changing Volume Lock.

PROBLEM: CH+ , CH – , and LAST do not work for your RCA TV.

SOLUTION: Due to RCA design (1983-1987), only the originalremote control will operate these functions.

PROBLEM: Changing channels does not work properly.

SOLUTION: If original remote control required pressing ENTER to change channels, press ENTER on the Millennium 4 after entering a chan nel number.

PROBLEM: Tried "Search Method" and still could not find a working code.

SOLUTION: Try the "Search Method" again after clearing out the device key as follows: Press and hold ENTER until red light blinks twice, then release. Next enter 9 - 9 - 2. Then press and release the device

ADDITIONAL INFORMATION

The Millennium 4 does not have any user-serviceable parts. Opening the case, except for the battery cover, may cause permanent damage to your Millennium 4.

For help via the Internet, visit us at:

http://www.urcsupport.com

For help via e-mail, contact us at:

CableHelp@ueic.com

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